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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/637,191	08/08/2003	Jurgen Muller	P2001,0082	3966	
24131	7590 04/06/2006		EXAMINER		
LERNER G P O BOX 248	REENBERG STEMEI	NGUYEN, PHILLIP			
	DD, FL 33022-2480	ART UNIT	PAPER NUMBER		
			2828		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)				
Office Action Summary		10/637,19	91	MULLER, JURGEN				
		Examine		Art Unit				
		Phillip Ng	ıyen	2828				
Period fo	The MAILING DATE of this communication or Reply	appears on the	cover sheet with	the correspondence a	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING ansions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory per time to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to period for reply will.	DATE OF THE 1.136(a). In no every color will apply and wature, cause the app	IIS COMMUNICA ent, however, may a rep ill expire SIX (6) MONTI lication to become ABA	ATION. ly be timely filed IS from the mailing date of this NDONED (35 U.S.C. § 133).				
Status								
1)[\implies]	Responsive to communication(s) filed on 2	1 March 2006.						
2a)□	This action is FINAL . 2b)⊠ This action is non-final.							
3)□								
,—	closed in accordance with the practice unde	•		•				
Disposit	ion of Claims							
4)⊠	☑ Claim(s) <u>1-8 and 10-13</u> is/are pending in the application.							
/—	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠								
6)⊠	_							
7)🖂	Claim(s) 2,3,5-7,11 and 13 is/are objected to	to.			. •			
8)□	Claim(s) are subject to restriction an	d/or election r	equirement.					
Applicat	ion Papers			•				
9)□	The specification is objected to by the Exam	niner.		0	•			
•	The drawing(s) filed on is/are: a) = a		objected to b	y the Examiner.				
,	Applicant may not request that any objection to	-						
	Replacement drawing sheet(s) including the con	rection is requir	ed if the drawing(s) is objected to. See 37 (OFR 1.121(d).			
11)[The oath or declaration is objected to by the	Examiner. N	ote the attached	Office Action or form F	PTO-152.			
Priority (under 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim for fore ☐ All b)☐ Some * c)☐ None of:	eign priority un	der 35 U.S.C. §	119(a)-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority docum	ents have bee	en received in Ap	plication No				
	3. Copies of the certified copies of the p	oriority docum	ents have been r	eceived in this Nationa	al Stage			
	application from the International Bur	•						
* (See the attached detailed Office action for a	list of the cert	ified copies not re	eceived.				
				•				
Attachmen	nt(s)							
_	ce of References Cited (PTO-892)		4) Interview Su	mmary (PTO-413)				
2) 🔲 Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)	Mail Date				
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB. er No(s)/Mail Date	/08)	5) Notice of Inf 6) Other:	ormal Patent Application (P	10-152)			

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-8 and 10-13 have been considered but are most in view of the new ground(s) of rejection.

Claim Objections

2. Claim 10 is objected to because of the following informalities: The claim depends on claim 9, which has been cancelled. It is believed that claim 10 should be dependent on claim 1 because claim 9 has been combined with claim 1. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

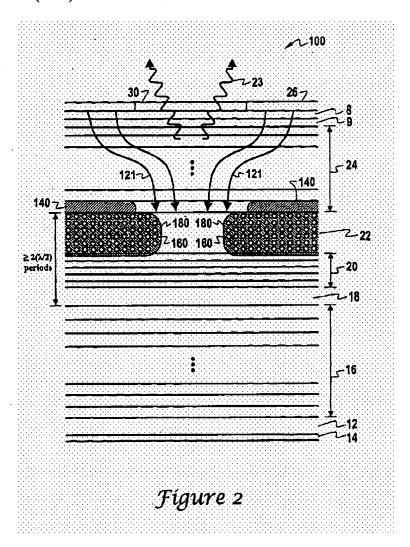
(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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Applicant cannot rely upon the foreign priority papers to overcome this rejection because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

Claims 1, 4, 8, 10, and 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Cox et al. ('072).



With respect to claim 1, Cox discloses in Fig. 2 above a semiconductor laser comprising: a vertical resonator formed by reflectors 16 and 24, a photon-emitting active layer disposed between said at least one current diaphragm 140 for laterally circumscribing a current flowing

through said photon-emitting active layer and mode-selective regions 160 and 180 extending in a vertical direction within said vertical resonator and laterally delimiting said vertical resonator, said mode-selective regions-being implantation regions extending into said photon-emitting active layer.

With respect to claim 4, Cox discloses the current diaphragm being formed from an oxide (col. 4, line 59).

With respect to claim 8, it is inherent that the implantation regions having an electrical conductivity less than an electrical conductivity of said vertical resonator along the resonator.

With respect to claim 10, it is also inherent that the vertical cavity having an edge area (outside edge) and mode selective region 22 (more specific, 160 and 180) that extends in said edge area and a surrounding region of said edge area of said vertical resonator which is any region that is different from edge area.

With respect to claim 12, see the Fig. 2 for multilayer structure and the mode-selective regions 22 being disposed within that multilayer structure.

Allowable Subject Matter

4. Claims 2-3, 6-7, and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 13 is allowed.

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Communication Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phillip Nguyen whose telephone number is 571-272-1947. The examiner can normally be reached on 9:00 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY, can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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